

Comparisons of Job Characteristics

Focus Occupation: [Highway Maintenance Workers \(47-4051\)](#)

Associated Occupation: [Operating Engineers and Other Construction Equipment Operators \(47-2073\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 76

Focus Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation: Operating Engineers and Other Construction Equipment Operators (47-2073)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Building and Construction	4.0	15.0	12.2	< Expanded education and/or training may be required
Mechanical	6.8	13.4	11.0	< Expanded education and/or training may be required
Public Safety and Security	6.9	10.5	14.2	>> Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 89

Focus Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation: Operating Engineers and Other Construction Equipment Operators (47-2073)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation and Control	5.4	13.4	11.4	< A higher skill level may be required
Operation Monitoring	6.6	10.0	11.4	> Skill level is likely sufficient
Equipment Maintenance	3.5	6.9	8.3	> Skill level is likely sufficient
Troubleshooting	4.5	6.6	8.5	> Skill level is likely sufficient
Repairing	3.4	6.4	7.9	> Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 89

Focus Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation: Operating Engineers and Other Construction Equipment Operators (47-2073)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Multilimb Coordination	6.0	13.2	12.9	0	Current ability level may be sufficient
Control Precision	6.6	12.6	13.3	0	Current ability level may be sufficient
Depth Perception	5.3	12.2	10.2	<	Some improvement in abilities may be required
Reaction Time	4.8	9.7	10.8	>	Current ability level is likely sufficient
Response Orientation	4.0	8.7	9.8	>	Current ability level is likely sufficient
Rate Control	3.8	8.6	9.8	>	Current ability level is likely sufficient
Glare Sensitivity	2.6	5.5	5.6	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 67

Focus Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation: Operating Engineers and Other Construction Equipment Operators (47-2073)

Work Activities	Exclusivity of Activity
Operate tractor with accessories or attachments	76
Understand construction specifications	53
Use hand or power tools	2

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation: Operating Engineers and Other Construction Equipment Operators (47-2073)

Tools and Technologies	Exclusivity
Aerial lifts	13
Agricultural machinery for harvesting	35
Agricultural machinery for planting and seeding	33
Agricultural machinery for soil preparation	35
Cleaning equipment	11
Compressors	9

Computers	1
Dispersing and spraying appliances for agriculture	26
Drilling and operation machinery	29
Earth moving machinery	11
Forming tools	2
Garden tools	12
Heating equipment and parts and accessories	19
Heavy equipment components	21
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Paint applicators and painting accessories	15
Passenger motor vehicles	13
Paving equipment	35
Personal communication devices	2
Pneumatic tools	8
Power generators	16
Power tools	2
Product and material trailers	24
Product and material transport vehicles	13
Pumps	9
Soldering and brazing and welding machinery and supplies	6
Specialized and recreational vehicles	17
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.